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NOTICE OF ALLOWANCE AND FEE(S) DUE

26694

7590

01/07/2010

VENABLE LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998 EXAMINER
FISHER, ABIGAIL L
ART UNIT PAPER NUMBER

1616 DATE MAILED: 01/07/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,568	12/14/2001	Michael B. Zemel	31894-192402	9941

TITLE OF INVENTION: MATERIALS AND METHODS FOR THE TREATMENT OR PREVENTION OF OBESITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

CURRENT CORRESPONDI	F	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
VENABLE LL P.O. BOX 34385 WASHINGTON		/2010	I S a ti	hereby certify that tates Postal Service ddressed to the Ma ransmitted to the US	e rtificat this Feet with su til Stop PTO (57	e of Mailing or Transn (s) Transmittal is being fficient postage for first ISSUE FEE address (71) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/017,568	12/14/2001		Michael B. Zemel			31894-192402	9941
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nonprovisional	NO NO	\$1510	\$300	\$0	CETEE	\$1810	04/07/2010
EXAM		ART UNIT	CLASS-SUBCLASS			φ1010	04/01/2010
FISHER, A	BIGAIL L	1616	514-167000	514-167000			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON '	listed, no name will THE PATENT (print or data will appear on the	atively, ngle firm (having as or agent) and the na uttorneys or agents. I be printed. type) e patent. If an assig an assignment.	a members of up f no name	oer a 2 up to ne is 3 dentified below, the do	cument has been filed for
		4l permitted)	b. Payment of Fee(s): (F A check is enclose Payment by credit The Director is her	Please first reapply d. card. Form PTO-20	any pres	viously paid issue fee s ached. required fee(s), any def	
	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no	onger claiming SM	ALL EN	TITY status. See 37 CF	R 1.27(g)(2).
interest as shown by the	records of the United Sta	tes Patent and Trademark	c Office.	ш ше аррисапі; а ге	gistered	attorney or agent; or the	e assignee or other party in
Authorized Signature			Date				
Typed or printed name			Registration No				
an application Confident	tiality is governed by 35 dapplication form to the tons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14 This collection is	estimated to take 13	minute	s to complete including	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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26694 7590 01/07/2010			EXAMINER		
VENABLE LLP			FISHER, ABIGAIL L		
P.O. BOX 34385			ART UNIT PAPER NUMBER		
WASHINGTON, I	OC 20043-9998		1616		
		DATE MAILED: 01/07/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/017,568 Examiner	ZEMEL ET AL. Art Unit	
none or renewaling	Examine	Artonic	
	ABIGAIL FISHER	1616	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commun GHTS. This application is su	his application. If not included ication will be mailed in due cou	rse. THIS
1. 🔀 This communication is responsive to Response filed 11/24	/09 and supplemental respons	<u>se filed 12/16/09</u> .	
2. \boxtimes The allowed claim(s) is/are <u>35-38, 50,55-58,61,63 and 81-8</u>	<u>88</u> .		
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or	(f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:		.,	
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Application	No	
3. Copies of the certified copies of the priority do	cuments have been received	n this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the require	∍ments
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's	s Amendment / Comment or in	n the Office action of	
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the:
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Info	rmal Patent Application	
2. ☐ Notice of Preferences Cited (PTO-692) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sur	• •	
•	Paper No./M	ail Date	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/4/09	7. ☐ Examiner's A	mendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's S	tatement of Reasons for Allowar	nce
····· J ·····	9. 🗌 Other		

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The instant claims are directed to a method of regulating body weight comprising administering 1β -25-dihydroxyvitamin D_3 in an amount effect to block the calcitrophic hormone activity in adipocytes. The adipocytes will absorb calcium when exposed to 1β -25-dihydroxyvitamin D_3 thereby increasing intracellular calcium within the cell leading to weight loss. The closest prior art, Norman et al., teaches that 1β -25-dihydroxyvitamin D_3 is an antagonist of 1α -25-dihydroxyvitamin D_3 . Norman et al. does not teach the effect of 1β -25-dihydroxyvitamin D_3 in adipocytes and the effect seen in the three cell types taught by Norman et al. are the opposite to the effect seen in adipocyte (i.e. they cause a decrease in intracellular calcium concentrations). Therefore, the demonstrated effect in adipocytes after administration of 1β -25-dihydroxyvitamin D_3 is unobvious and unexpected.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 35-38, 50,55-58,61,63 and 81-88 are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABIGAIL FISHER whose telephone number is (571)270-3502. The examiner can normally be reached on M-Th 9am-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Abigail Fisher Examiner Art Unit 1616

ΑF

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616